

MICHIGAN

Coastal Management Fellowship—1997 to 1999

www.csc.noaa.gov/cms/1997Fellows.html

A Coastal Management Fellow worked with the Michigan Land and Water Management Division to conduct a project entitled "Improving Coastal Wetland Resource Decisions in Michigan."

Through this project a standardized procedure was developed for making sound, consistent, and defensible decisions regarding Michigan's coastal wetland resources. This project analyzed and integrated the assessment of biological resources and human development issues.

Coastal Management Fellowship—2001 to 2003

www.csc.noaa.gov/cms/fellows/01_fellows.html

A Coastal Management Fellow is working within the Michigan Department of Environmental Quality, Land and Water Management Division, to create a publication entitled "Environmental Protection for Coastal Communities: A Guide for Local Governments." The project manages all phases of the guidebook, including research, development, final composition, and developing a dissemination strategy.

CZMA Bibliographies

www.csc.noaa.gov/CZIC/

The Center's library has cataloged NOAA's Coastal Zone Information Center collection, produced by state coastal management programs under the Coastal Zone Management Act (CZMA). This collection contains documents that span a number of coastal topics and includes brochures, management plans, and legislative information. A bibliography of this information for the Great Lakes states is available.

Great Lakes Land Cover and Change Data—2002, 2003

This project mapped terrestrial land cover in coastal watershed environments and identified changes in these areas that occurred between 1995 and 2001. The project relied on satellite multispectral imagery as the primary information source. These data were used to distinguish major land cover classes, and previous images were studied to locate areas that changed over time. For this project, the data were acquired according to the Center's Coastal Change Analysis Program (C-CAP) methods.

Habitat Restoration and Conservation Plan: Lake St. Clair—2002, 2003

www.csc.noaa.gov/lcr/text/stclair.html

This project characterizes six watersheds in Michigan and Ontario, encompassing 9,300 square miles and feeding into Lake St. Clair—a region identified by the U.S. Environmental Protection Agency and its Canadian counterpart as priority habitat for preservation and restoration. The characterization includes a geospatial database, a decision-support tool designed to identify priority areas for conservation and restoration, and a draft conservation and restoration plan for coastal habitats. The Great Lakes Commission is developing the characterization through a cooperative agreement with the NOAA Coastal Services Center.

Mapping Impervious Surface in Grand Traverse County—1996 to 1998

Under a grant from the Center, the Michigan Department of Environmental Protection and Office of the Grand Traverse County Drain Commissioner developed a geographic information system-based method to map the extent of impervious surface in the county. This map provided a baseline for monitoring future growth and was integrated into other assessments that identified areas needing special protection.

Protected Areas GIS (PAGIS)

www.csc.noaa.gov/pagis/

The PAGIS project brought compatible geographic information systems (GIS), geographic data management, and Internet capabilities to each of the nation's 25 Estuarine Research Reserves and 13 Marine Sanctuaries. Through PAGIS, the reserves and sanctuaries also developed

advanced data sets, underwent extensive training, and found innovative ways to make the most effective use of their new data and technological capabilities.